



Product Brief

OptiMOS™ 5 175°C in SuperSO8

Enhanced temperature rating for improved robustness

OptiMOS™ 5 in SuperSO8 offers the latest technology together with temperature improvements in the package. This new combination enables higher power density as well as improved robustness.

Compared to lower rated devices, the 175°C T_{J_MAX} feature offers either more power at a higher operating junction temperature or longer lifetime at the same operating junction temperature. Furthermore, the device achieves 20 percent improvement in the safe operating area (SOA).

This new package feature is the perfect fit for applications such as telecom, motor drives and server.

Key features

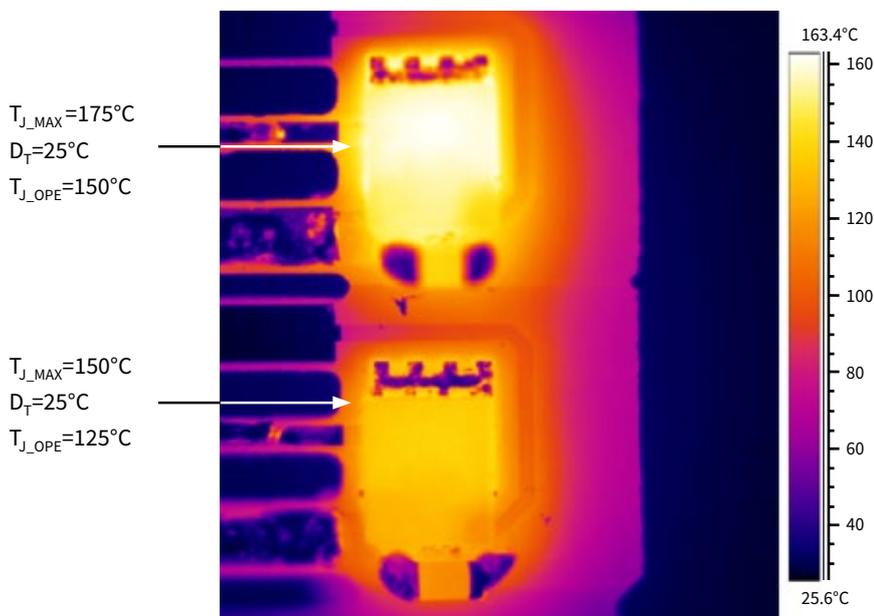
- > Low on-state resistance ($R_{DS(on)}$)
- > Optimized for synchronous rectification
- > Enhanced 175°C capability
- > in SuperSO8 package

Key benefits

- > Longer lifetime
- > Highest efficiency and power density
- > Highest system reliability
- > Thermal robustness

Target applications

- > Motor drives
- > Server
- > Telecom

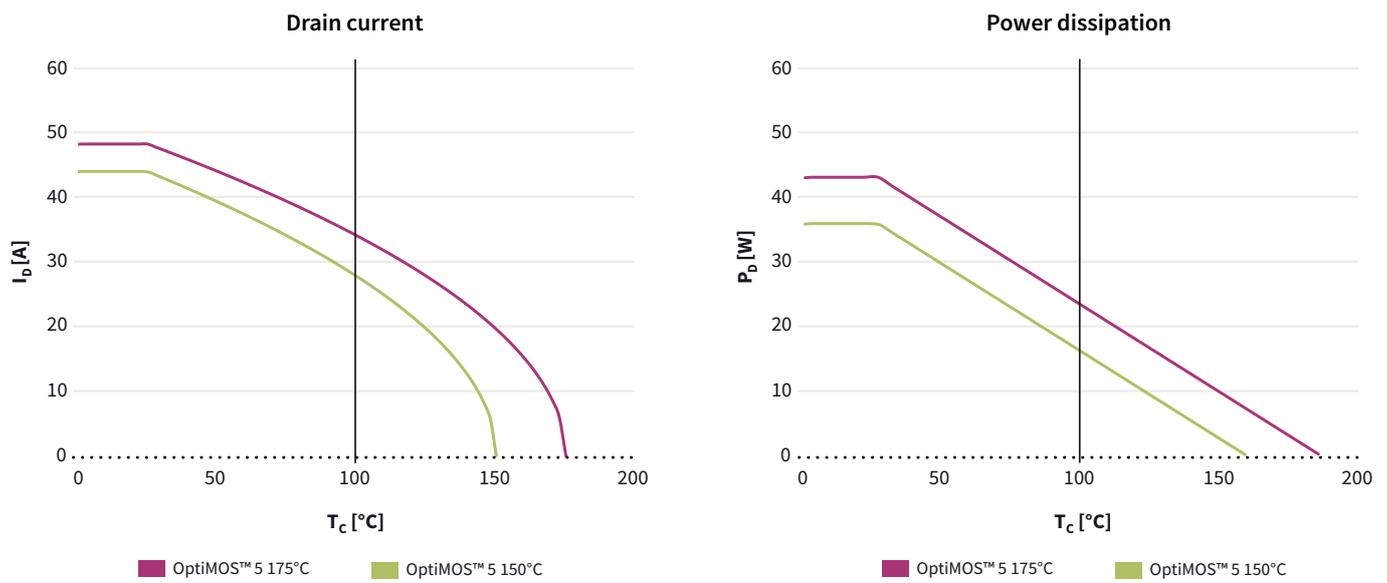


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Compared to the standard SuperSO8, OptiMOS™ 5 175°C shows up to 30 percent increase either in drain current or in power dissipation.

The first wave of products offering this enhanced temperature rating is available in OptiMOS™ 5 in 30 V, 40 V and 60 V.



Product portfolio – OptiMOS™ 5 175°C in SuperSO8

Voltage [V]	Part number	R _{DS(on)} max. [mΩ]
30 V	BSC011N03LST	1.1
40 V	BSC010N04LST	1.0
	BSC014N04LST	1.4
	BSC019N04LST	1.9
	BSC014N06NST	1.4
60 V	BSC016N06NST	1.6
	BSC019N06NS	1.9
	BSC028N06NST	2.8
	BSC097N06NST	9.7
	BSC037N08NS5T	3.7
80 V		

Published by
Infineon Technologies Austria AG
9500 Villach, Austria

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